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(54) Title: CHIMERIC CARRIER MOLECULES FOR THE PRODUCTION OF MUCOSAL VACCINES

(57) Abstract: The invention relates to a protein complex for the delivery of an antigen to and across mucosal surfaces and the production of said complex in a host cell, such as a plant. Provided is a protein complex comprising at least two, preferably identical, subunits wherein at least one subunit is unaltered and at least one subunit is fused to a first molecule of interest and wherein the protein complex is able to interact with a cell surface receptor via said subunits. Also provided is a method for producing a protein complex according to the invention, comprising a) providing a host cell with a nucleotide sequence encoding an unaltered subunit and a nucleotide sequence encoding a molecule of interest, wherein at least one molecule of interest is fused to a subunit; b) culturing said host cell thereby allowing expression of said nucleotide sequences and allowing for assembly of the protein complex; c) isolating the complex; d) determining the binding of the complex to a cell surface receptor or to a molecule which mimics a cell surface receptor.